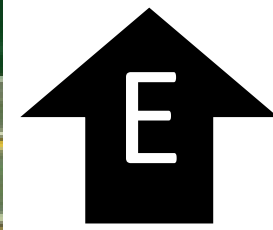
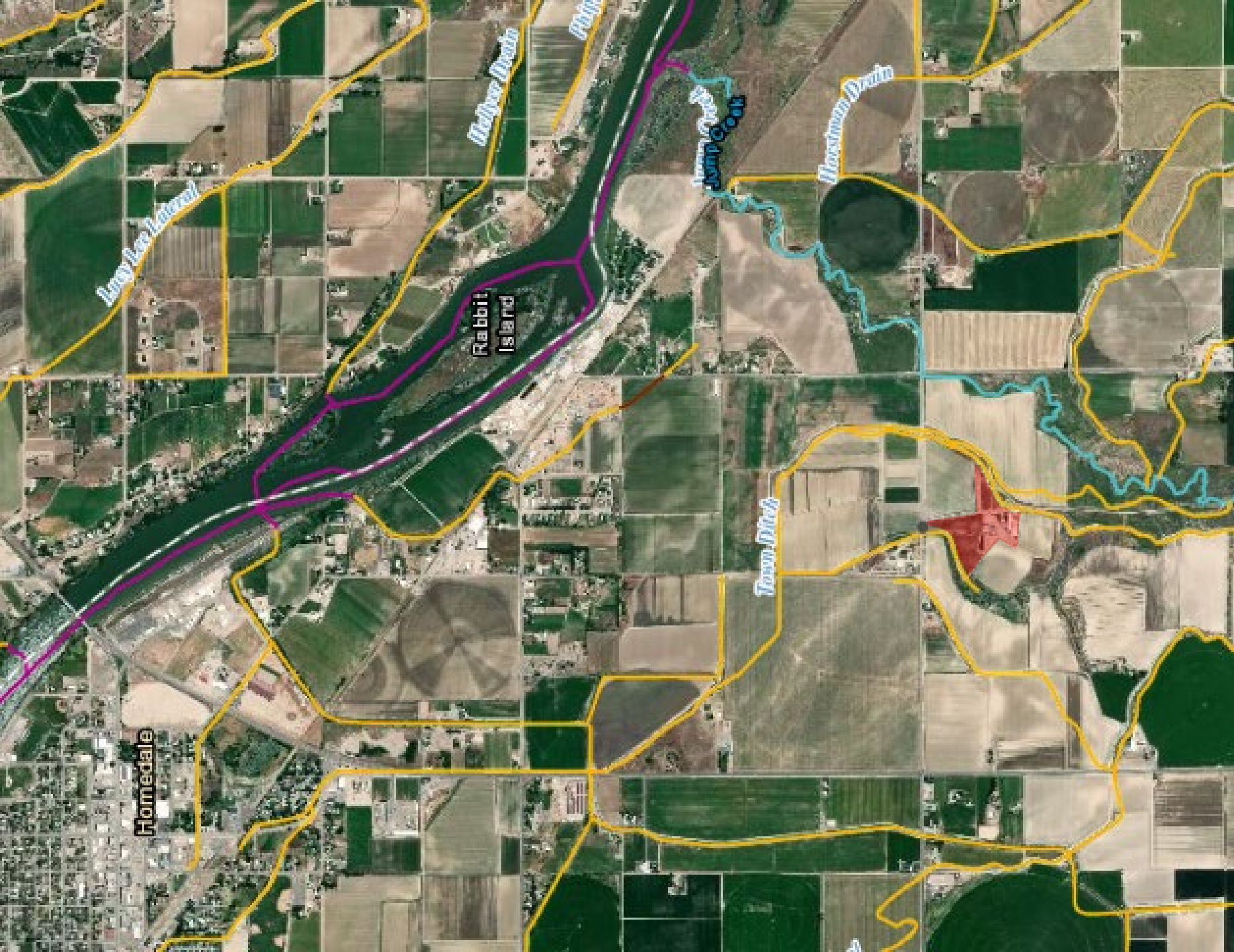


# Owyhee Dairy Complaint Investigation Report

By Emily Montague

May 22, 2019



Drains, Laterals,  
Canals, and Ditches

Snake River

Jump Creek

Owyhee Dairy  
Points of Discharge

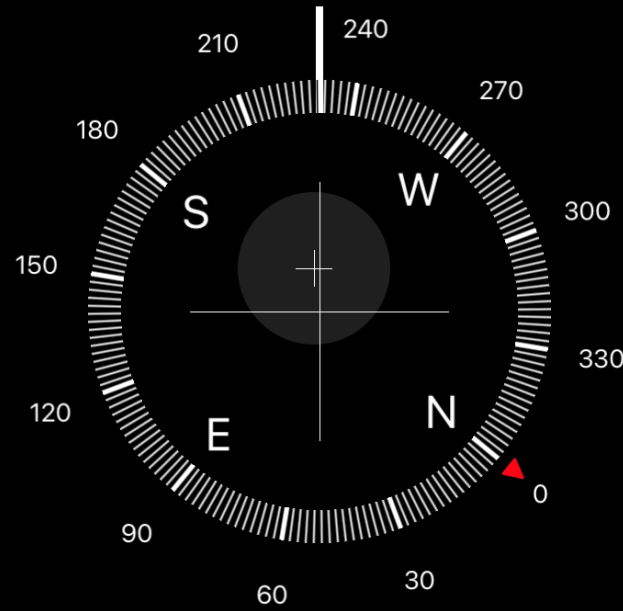






Photograph taken by Inspector Montague on May 21, 2019 facing 313 degrees Northwest shows placement of the first cut in the bank between the North corrals and the ditch that borders Owyhee Dairy on the North and Northwest side of facility. Slurry and effluent are shown coming out of corrals at the time of inspection. 1 ½ - 2 foot berm that was in place along ditch bank approximately one year ago is no longer in tact along ditch bank edge.





230° SW

43°35'18" N 116°55'11" W

Homedale, ID

2230 ft Elevation

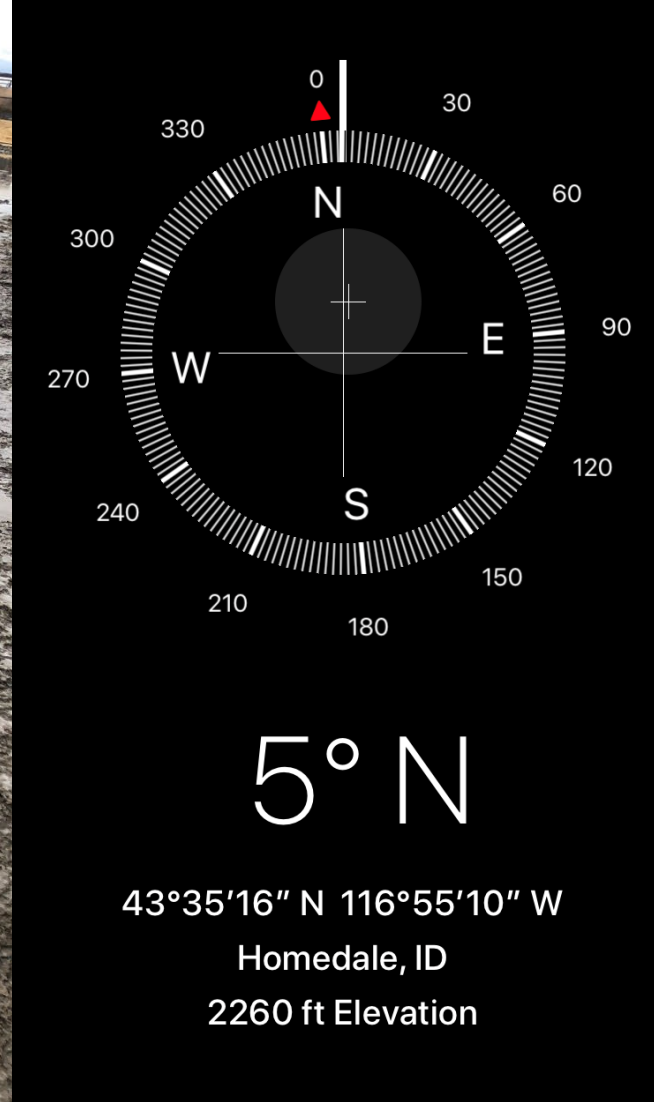
Photograph taken by Inspector Montague on May 21, 2019 facing 230 degrees Southwest shows placement of the first cut in the bank between the North corrals and the ditch that borders Owyhee Dairy on the North and Northwest side of facility. Newly placed gravel and dirt line area in this location where 1 ½ - 2 foot berm was in place along ditch bank approximately one year ago.





Photograph taken by Inspector Montague on May 21, 2019 facing 281 degrees West shows pooled liquids commingled with slurry from corrals approaching ditch that borders Owyhee Dairy on the North and Northwest side of facility.





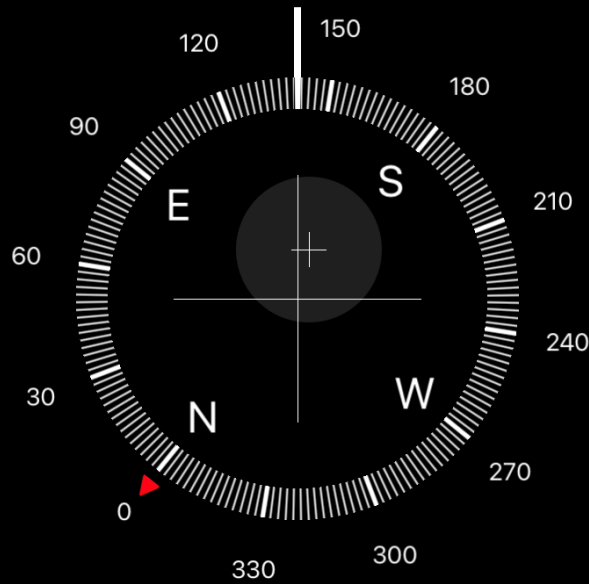
Photograph taken by Inspector Montague on May 21, 2019 facing 5 degrees North shows placement of uncontained solid slurry pile in the direction of the ditch bank that lies between the North corrals and the ditch that borders Owyhee Dairy on the North and Northwest side of facility. Slurry is shown coming out of corrals at the time of inspection.





Photograph taken by Inspector Montague on May 21, 2019 facing 336 degrees Northwest shows evidence of past discharge directly North of pipe head coming out of bank that faces North corral area at Owyhee Dairy into Ditch that borders North and Northwest side of facility. Samples were collected at this time.





141° SE

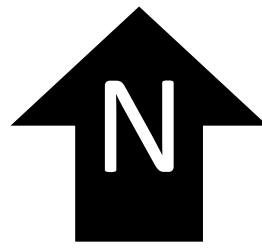
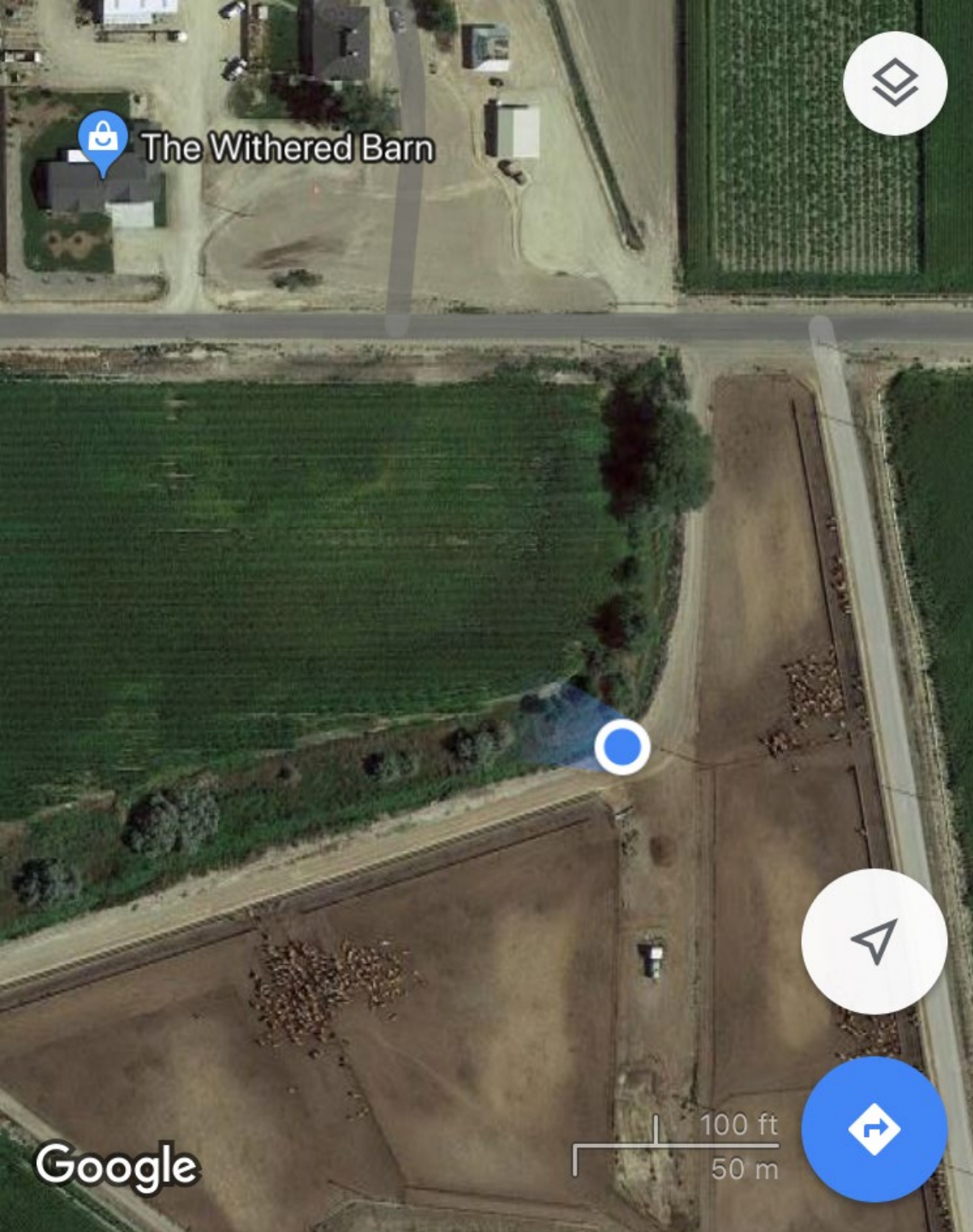
43°35'16" N 116°55'10" W

Homedale, ID

2250 ft Elevation

Photograph taken by Inspector Montague on May 21, 2019 facing 141 degrees Southeast shows capped pipe head coming out of bank that faces North corral area at Owyhee Dairy into Ditch that borders North and Northwest side of facility.



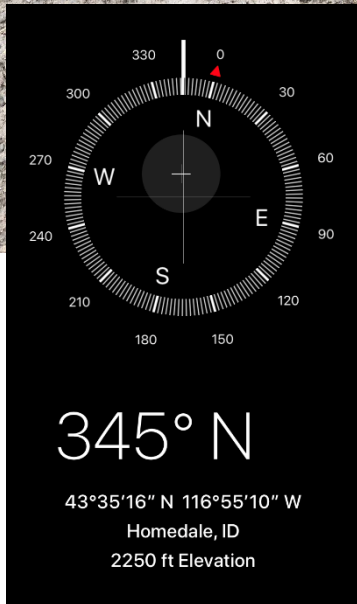


Google Maps aerial photograph shows placement of where the pipe head coming out of the bank was observed in the ditch. Blue dot marks placement of where Inspector Montague was standing when the head of the capped pipe was observed on May 21, 2019.





Photograph taken facing 345 degrees North by Inspector Montague shows placement of pipe head where she observed evidence of past discharge. Gravel and dirt was recently put in place along bank edge. Photograph taken May 21, 2019.



Photograph taken facing 280 degrees West by Inspector Montague shows placement of 5-6 foot high gravel berming covering pooled effluent and second cut in bank between corrals and ditch. Photograph taken May 21, 2019.



Location of 2<sup>nd</sup> cut in bank



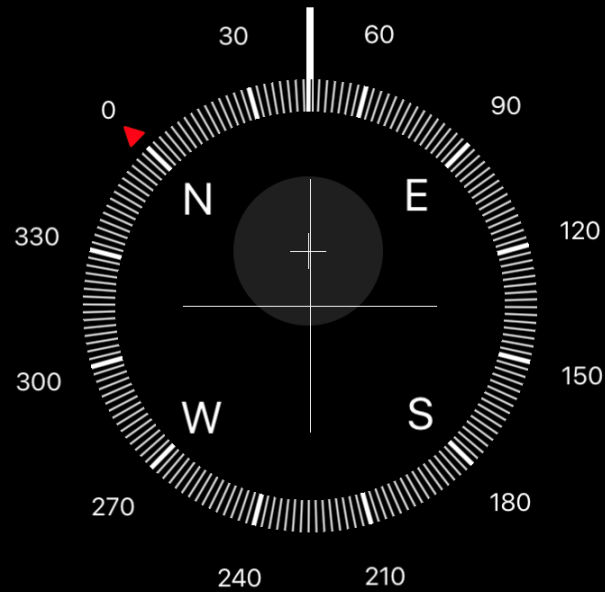


Location of 2<sup>nd</sup> cut in bank where  
dirt has been pushed into ditch



Photograph taken by Inspector Montague on May 21, 2019 facing 46 degrees Northeast shows approximate location of the second cut in the bank observed at the time of inspection along the bank that borders the North and Northwest side of Owyhee Dairy. Photograph shows dirt pushed into ditch and recently placed gravel and dirt along part of the ditch bank that borders the North and Northwest side of Owyhee Dairy.





45° NE

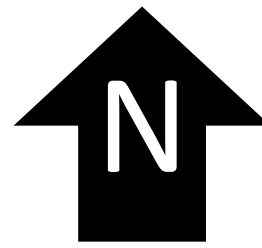
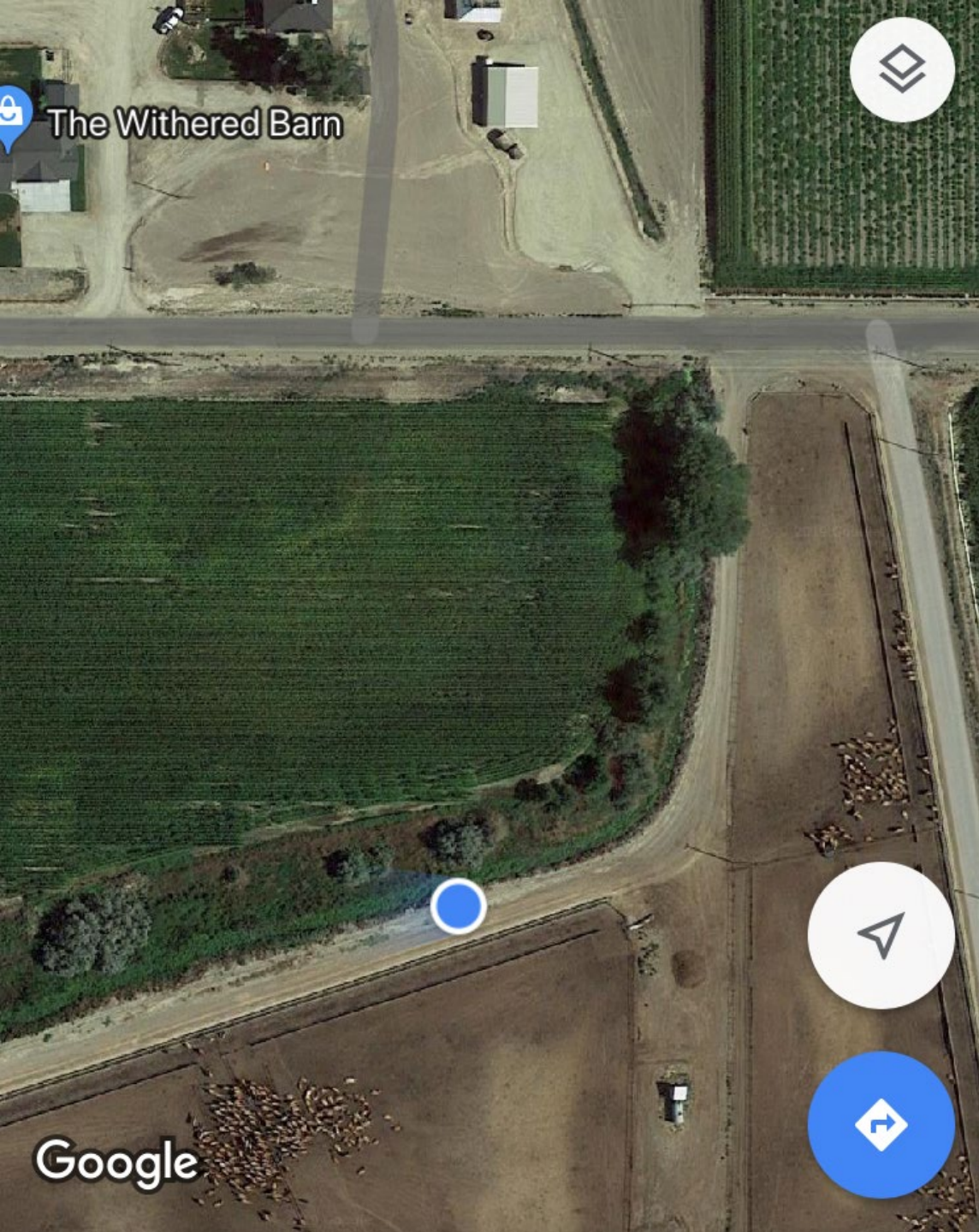
43°35'16" N 116°55'13" W

Homedale, ID

2260 ft Elevation

Photograph taken by Inspector Montague on May 21, 2019 facing 45 degrees Northeast shows placement of gravel and dirt over pooled effluent along the ditch bank that borders the North and Northwest side of Owyhee Dairy. Newly placed gravel and dirt line area in this location where 1 ½ - 2 foot berm was in place along ditch bank approximately one year ago.





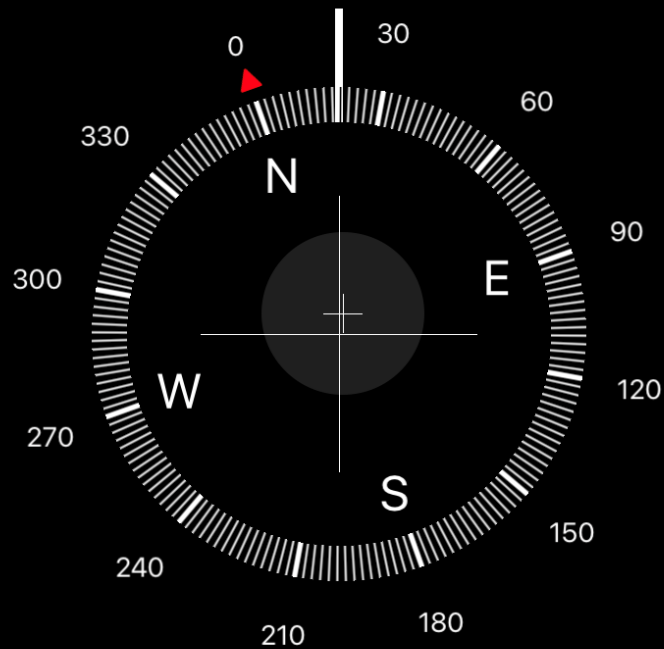
Google Maps aerial photograph shows placement of where second cut in bank was observed at Owyhee Dairy facility. Blue dot marks placement of where Inspector Montague was standing when the second cut in the bank was observed on May 21, 2019.





Photograph taken by Inspector Montague on May 21, 2019 facing 113 degrees southeast shows where field lateral that borders facility meets ditch along the north and northwest side of Owyhee Dairy. Bank has been compromised and runoff from corrals is able to commingle with ditch water.





19° N

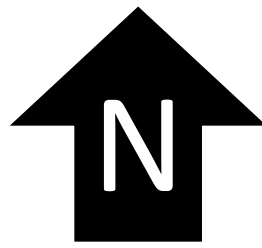
43°35'16" N 116°55'11" W

Homedale, ID

2250 ft Elevation

Photograph taken by Inspector Montague on May 21, 2019 facing 19 degrees north shows pooled stagnant effluent approximately two yards from the start of ditch that borders facility just north and northwest of the upper corrals and approximately four yards from where field lateral that borders facility ends.





Google Maps aerial photograph shows placement of where third cut in bank was observed at Owyhee Dairy facility. Dirt and rubble was pushed into ditch at this location. Blue dot marks placement of where Inspector Montague was standing when the third cut in the bank was observed on May 21, 2019.

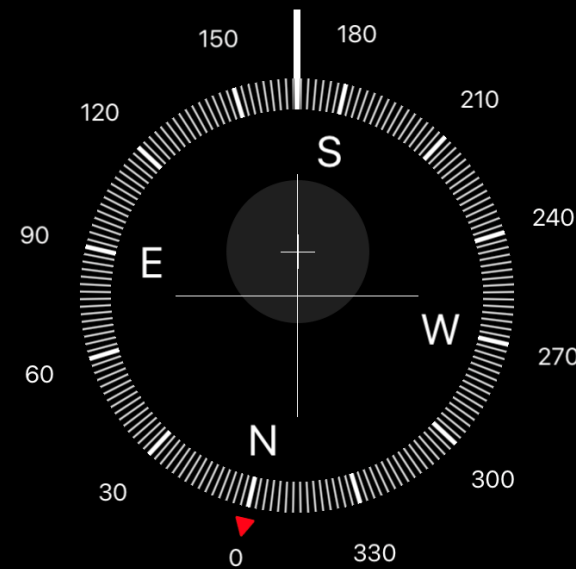












166° S

43°35'46" N 116°55'18" W

Homedale, ID

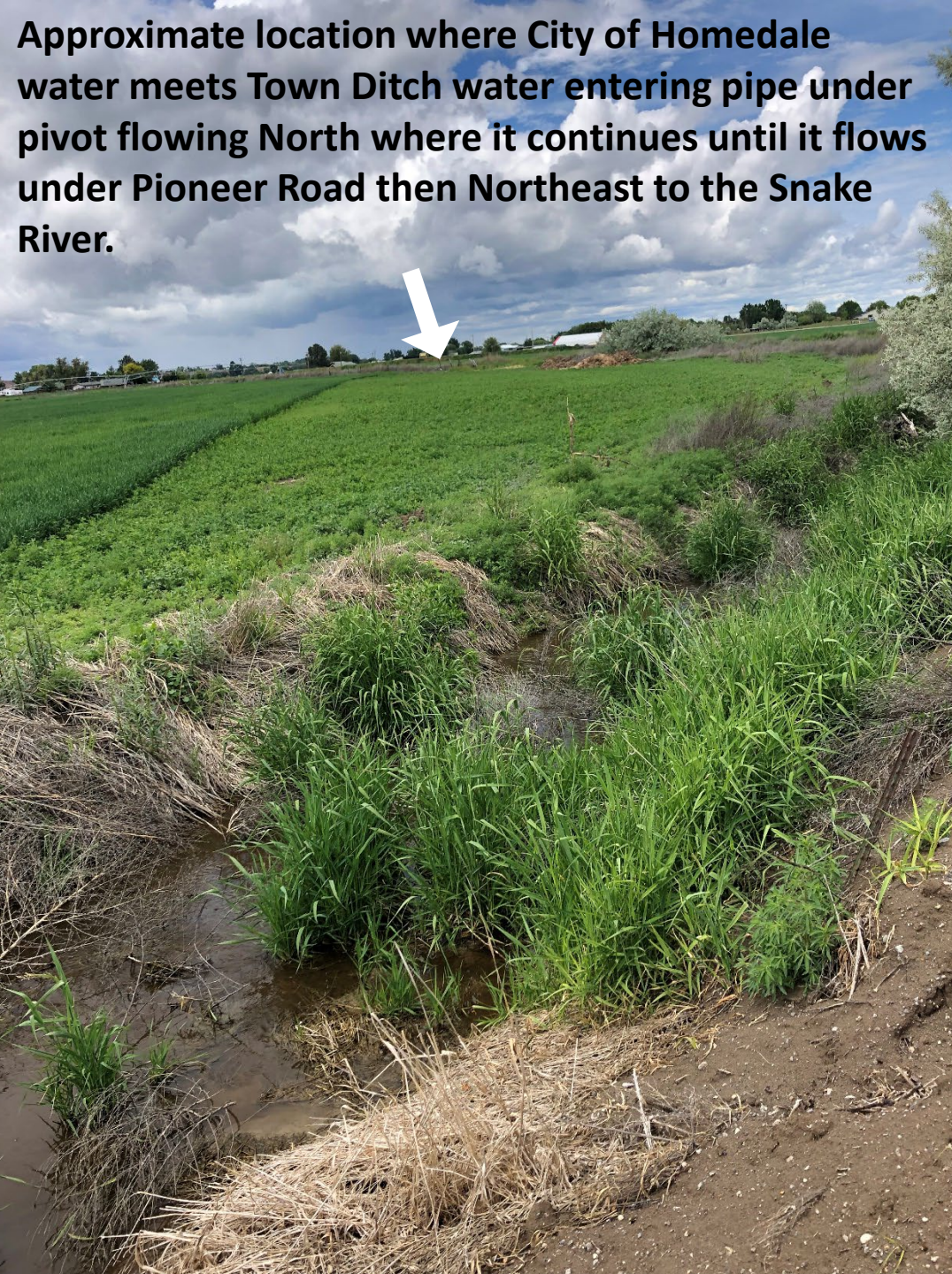
2240 ft Elevation

Photograph taken by Inspector Emily Montague on May 21, 2019 facing 166 degrees South shows ditch water downstream from point of discharge at the Archabal Drain/Town Ditch. Ditch contents were thoroughly contaminated with effluent from Owyhee Dairy discharge on May 221, 2019. At the time of inspection, Inspector Montague observed a strong odor coming from ditch contents consistent with the effluent observed at Owyhee Dairy on May 21, 2019. Samples for evidence were taken at this time.









**Approximate location where City of Homedale water meets Town Ditch water entering pipe under pivot flowing North where it continues until it flows under Pioneer Road then Northeast to the Snake River.**

Photograph taken by Inspector Montague on May 21, 2019 facing Northwest shows Town Ditch contents heading North then Northeast where contents reach the Snake River approximately 2,387 yards downstream.



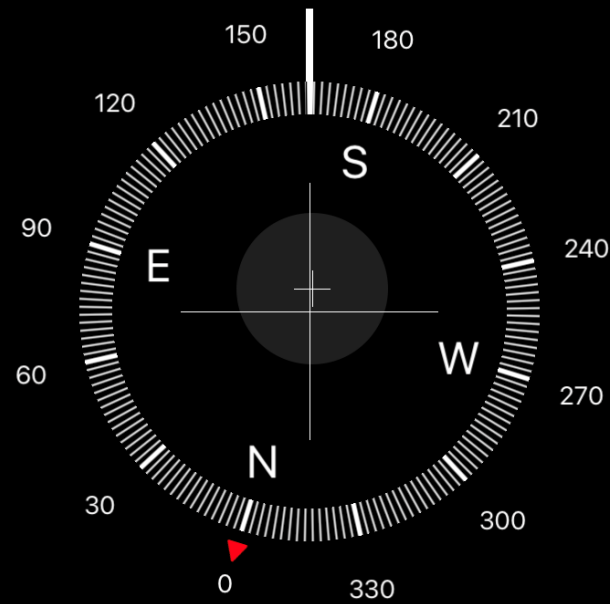


Photograph taken by Inspector Montague on May 21, 2019 facing 295 degrees Northwest shows main point of Owyhee Dairy discharge from Southeast corrals into Town Ditch. Samples were taken for evidence shortly after discharge was observed.









162° S

43°35'11" N 116°55'22" W

Homedale, ID

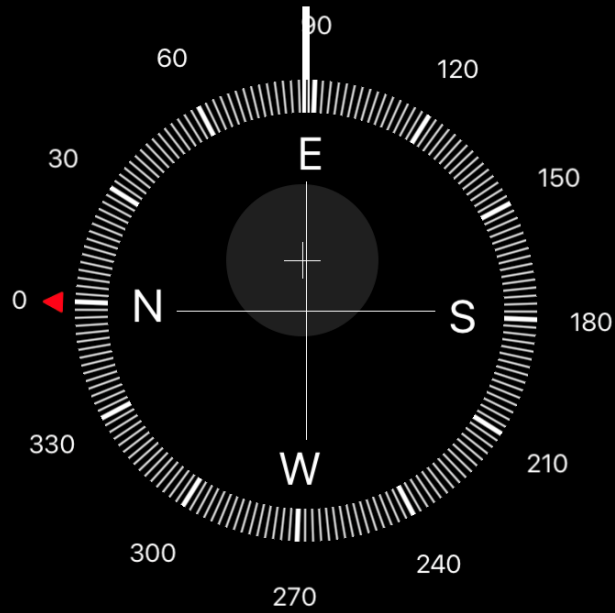
2230 ft Elevation

Photograph taken by Inspector Montague on May 21, 2019 facing 162 degrees shows clean water observed near spring that feeds to Town Ditch. Location was upstream from Town Ditch that borders Owyhee Dairy facility.









87° E

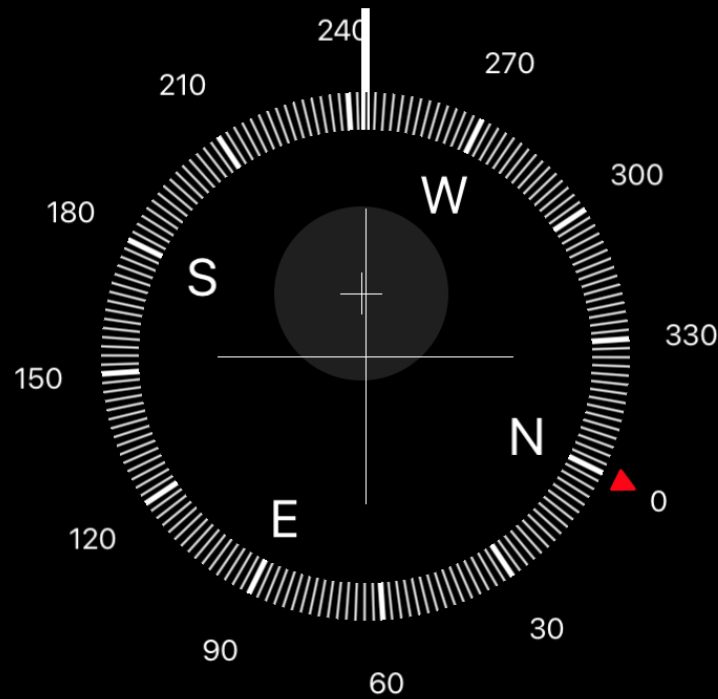
43°35'19" N 116°54'51" W

Homedale, ID

2250 ft Elevation

Photograph taken by Inspector Emily Montague on May 21, 2019 facing 87 degrees East shows where Town Ditch enters lateral that flows east towards drain that connects to Jump Creek.





243° SW

43°35'19" N 116°54'41" W

Homedale, ID

2230 ft Elevation

Photograph taken by Inspector Montague on May 21, 2019 facing 243 degrees Southwest shows placement of drain that connects Town Ditch water contents to Jump Creek.







# Follow Up Inspection Completed May 22, 2019

By Emily Montague

May 22, 2019



1



Gravel put in place by Mr. Williams on the evening of May 21, 2019 to try and prevent additional runoff from going out of the corrals and into Town Ditch

2



3



All three photographs taken along southeast corral bank between the corrals and the bank of the ditch show six places where effluent was running off into Town Ditch on March 21, 2019. Photographs taken by Inspector Montague show runoff is no longer flowing into Town Ditch at the time of inspection conducted on March 22, 2019.

Photograph taken by Inspector Montague taken on May 22, 2019 shows runoff is no longer flowing into Town Ditch from the main point of where runoff was discharging into Town Ditch the previous day.



Gravel put in place by Mr. Williams on the evening of May 21, 2019 to try and prevent additional runoff from going out of the corrals and into Town Ditch

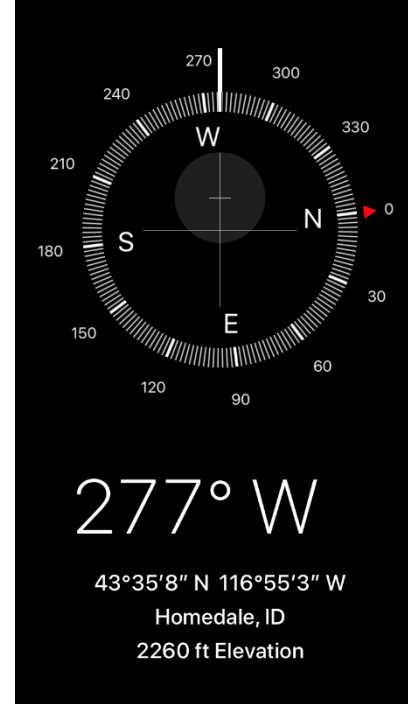
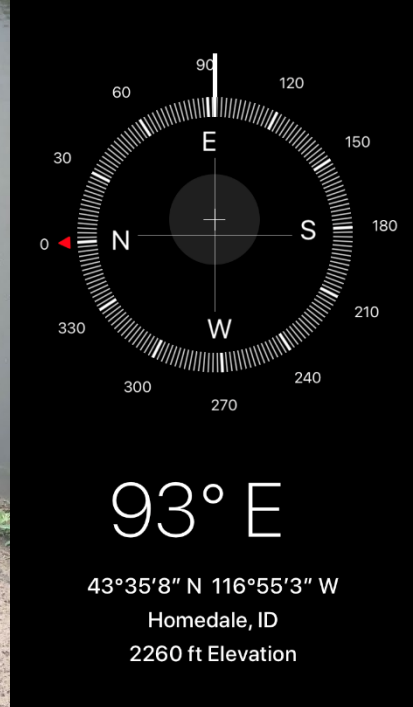


Gravel put in place by Mr. Williams on the evening of May 21, 2019 to try and prevent additional runoff from going out of the corrals and into Town Ditch



All three photographs taken along southeast corral bank between the corrals and the bank of the ditch show six places where effluent was running off into Town Ditch on March 21, 2019. Photographs taken by Inspector Montague show runoff is no longer flowing into Town Ditch at the time of inspection conducted on March 22, 2019.





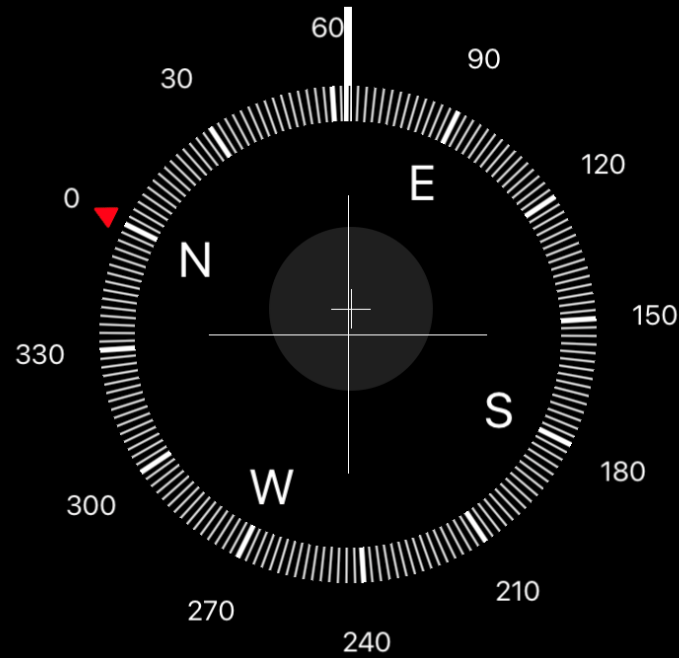
Photograph 1 taken by Inspector Montague on May 22, 2019 shows the point where commodity storage runoff was flowing into Town Ditch on May 21, 2019. Photograph shows runoff was no longer flowing into Town Ditch at the time of inspection on May 22, 2019. Photograph 2 taken by Inspector Montague on May 22, 2019 shows channel created by runoff from commodity storage area where runoff was flowing Southeast towards Town Ditch on May 21, 2019. Photograph shows runoff was no longer flowing into Town Ditch at the time of inspection on May 22, 2019. There was still a sheen film and smell of oil mixed with diesel on May 22, 2019.





Photograph taken by Inspector Montague on May 22, 2019 taken facing 249 degrees West shows placement of commodity storage area where pooled nutrients and oil and diesel fuel mix next to large cinder blocks that enclose commodity storage area.





63° NE

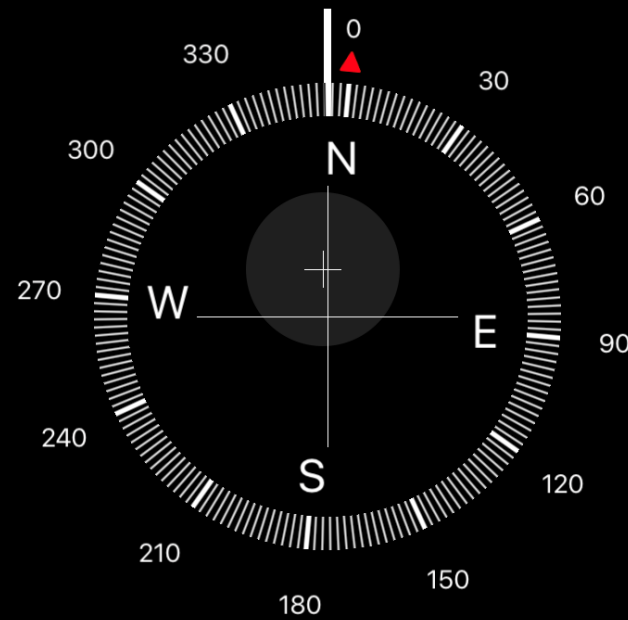
43°35'15" N 116°55'10" W

Homedale, ID

2240 ft Elevation

Photograph taken by Inspector Montague on May 22, 2019 facing 63 degrees Northeast shows pipe head coming from north corral area into ditch that no longer has a cap containing effluent from discharging into the ditch. Samples were taken at this time to show contents of liquids discharging from pipe head.





354° N

43°35'15" N 116°55'10" W

Homedale, ID

2240 ft Elevation

Photograph taken by Inspector Montague on May 22, 2019 facing 354 degrees North shows contents from pipe head that no longer has a cap discharging into the ditch. Samples were taken at this time to show contents of liquids discharging from pipe head.







CLIENT CODE: CHAIN OF CUSTODY RECORD

CLIENT INFORMATION: Project Manager: Emily Montague, Company: ISDA Dairy Bureau, Address: 2270 Old Penitentiary Rd, Boise ID 83712, Phone: 208-332-8550, Fax: 208-334-4062

PROJECT INFORMATION: Project Name: Owyhee Dairy, PWS Number: , Purchase Order Number: , Required Due Date: , E-mail Address: Emily.Montague@isda-idaho.gov

ANALYTICAL LABS, INC. 1804 N. 33rd Street • Boise, ID 83703 (208) 342-5515 • Fax: (208) 342-5591 • 1-800-574-5773 Website: www.analyticallaboratories.com E-mail: ali@analyticallaboratories.com TESTS REQUESTED

Sampled by: (Please print) Emily Montague, Transported by: (Please print) Emily Montague

Lab ID	Date Sampled	Time Sampled	Sample Description (Source)	Sample Matrix	Total Coliform	Fecal Coliform	E.coli	NO3	NH3	Remarks
	5/21/19	12:54	320' NW Owyhee Dairy Creek By N. Corral		X	X	X			
	5/21/19	12:54	320' NW Owyhee Dairy Creek By N. Corral				X	X		
	5/21/19	1:17	19' N Point of Past Discharge @ Owyhee Dairy		X	X	X			
	5/21/19	1:17	19' N Point of Past Discharge @ Owyhee Dairy				X	X		
	5/21/19	1:31	337' NW Owyhee Dairy Creek Upstream		X	X	X			
	5/21/19	1:31	337' NW Owyhee Dairy Creek Upstream				X	X		
	5/21/19	2:22	ACHABA DITCH DRAIN Owyhee Dairy		X	X	X			
	5/21/19	2:22	ACHABA DITCH DRAIN Owyhee Dairy				X	X		
	5/21/19	2:33	Owyhee Dairy SE Corral Discharge		X	X	X			
	5/21/19	2:33	Owyhee Dairy SE Corral Discharge				X	X		

Invoice to: (If different than above address) Special Instructions:

ALLOCATIONS OF RISK: Analytical Laboratories, Inc. will perform preparation and testing services, obtain findings and prepare reports in accordance with Good Laboratory Practices (GLP). If, for any reason, Analytical Laboratories, Inc. errors in the conduct of a test or procedure, their liability shall be limited to the cost of the test or procedure completed in error. Under no circumstances will Analytical Laboratories, Inc. be liable for any other cost associated with obtaining a sample or use of data.

Note: Samples are discarded 21 days after results are reported. Hazardous samples will be returned to client or disposed of at client expense.

Relinquished By: (Signature) , Print Name: , Company: , Date: , Time: ,

Received By: (Signature) , Print Name: , Company: , Date: , Time: ,

Relinquished By: (Signature) , Print Name: Emily Montague, Company: ISDA, Date: 5/22/19, Time: 10:55

Received By: (Signature) , Print Name: , Company: ALI, Date: 5/22/19, Time: 1055

SAMPLE RECEIPT Total # of Containers: , Chains of Custody Seals: Y / N / NA, Intact: Y / N / NA, Temperature Received: , Condition: ,

REV. 2/19/12 WHITE: STAYS WITH SAMPLE(S) YELLOW: LAB PINK: SAMPLER

CLIENT CODE: CHAIN OF CUSTODY RECORD

CLIENT INFORMATION: Project Manager: Emily Montague, Company: ISDA Dairy Bureau, Address: 2270 Old Penitentiary Rd, Boise ID 83712, Phone: 208-332-8550, Fax: 208-334-4062

PROJECT INFORMATION: Project Name: Owyhee Dairy, PWS Number: , Purchase Order Number: , Required Due Date: , E-mail Address: Emily.Montague@isda-idaho.gov

ANALYTICAL LABS, INC. 1804 N. 33rd Street • Boise, ID 83703 (208) 342-5515 • Fax: (208) 342-5591 • 1-800-574-5773 Website: www.analyticallaboratories.com E-mail: ali@analyticallaboratories.com TESTS REQUESTED

Sampled by: (Please print) Emily Montague, Transported by: (Please print) Emily Montague

Lab ID	Date Sampled	Time Sampled	Sample Description (Source)	Sample Matrix	Total Coliform	Fecal Coliform	E.coli	NO3	NH3	Remarks
	5/22/19	7:46	Owyhee Dairy Lower Corral Discharge		X	X	X			
	5/22/19	7:46	Owyhee Dairy Lower Corral Discharge				X	X		

Invoice to: (If different than above address) Special Instructions:

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Note: Samples are discarded 21 days after results are reported. Hazardous samples will be returned to client or disposed of at client expense.

Relinquished By: (Signature) , Print Name: , Company: , Date: , Time: ,

Received By: (Signature) , Print Name: , Company: , Date: , Time: ,

Relinquished By: (Signature) , Print Name: Emily Montague, Company: ISDA, Date: 5/22/19, Time: 10:55

Received By: (Signature) , Print Name: , Company: ALI, Date: 5/22/19, Time: 1055

SAMPLE RECEIPT Total # of Containers: , Chains of Custody Seals: Y / N / NA, Intact: Y / N / NA, Temperature Received: , Condition: ,

REV. 2/19/12 WHITE: STAYS WITH SAMPLE(S) YELLOW: LAB PINK: SAMPLER

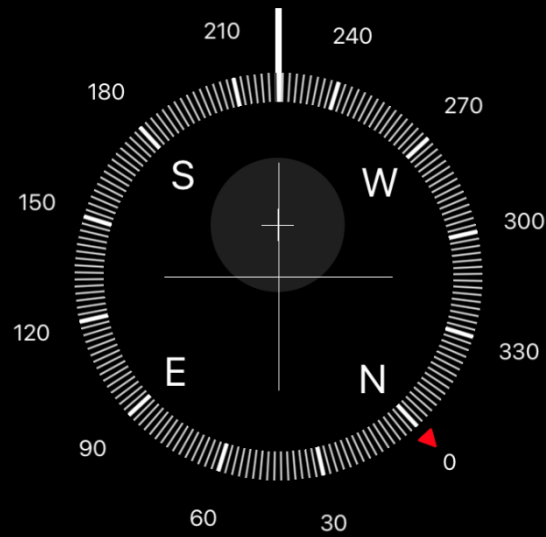
Photographs taken by Inspector Montague show the two chain of custody forms filled out for the six sets of samples submitted to Boise Analytical Laboratories on May 22, 2019 for the samples taken both complaint inspections at Owyhee Dairy. Photograph one is for the samples taken on May 21, 2019 testing for NO3, NH3, Total Coliform, Fecal Coliform, and Ecoli. Photograph two is for the samples taken on May 22, 2019 testing for NO3, NH3, Total Coliform, Fecal Coliform, and Ecoli.



# Follow Up Inspection Completed May 23, 2019

Completed by Inspector Montague and Soil Scientist Pradip Adhikari





222° SW

43°35'16" N 116°55'10" W

Homedale, ID

2220 ft Elevation

Photograph taken by Inspector Montague on May 23, 2019 facing 222 degrees Southwest shows four feet high berming added between the North corrals and the ditch that borders the North and Northwest side of Owyhee Dairy. Berming still needs to be compacted to the required 300 PSI to protect potential runoff from the facility from entering the ditch.





Photograph taken by Inspector Montague on May 23, 2019 facing 94 degrees East shows newly observed pipe coming from ditch bank at Owyhee Dairy. At the time of investigation no effluent was observed to be coming from pipe head.



1

Effluent remnants from discharge observed on May 22, 2019.

Approximate location of where discharge was observed coming from pipe head on May 22, 2019. Pipe head was buried and not able to be seen at the time of investigation

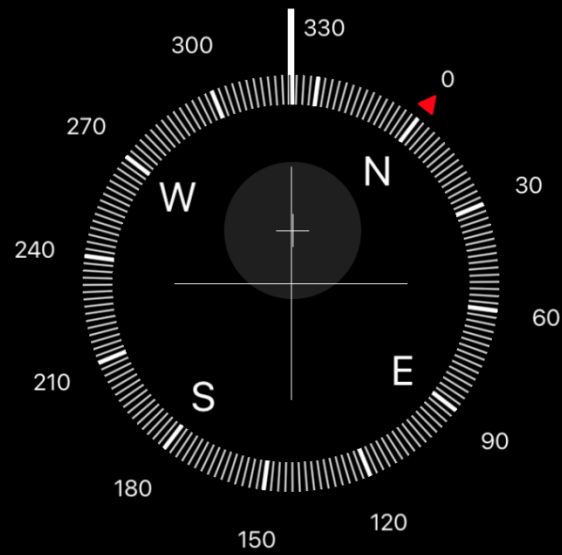


Photographs taken by Inspector Montague on May 23, 2019 facing 306 degrees Northwest and 309 degrees Northwest shows where pipe head that was discharging on May 22, 2019 has since been covered by gravel and dirt and was not able to be inspected. Remnants of effluent remained directly below where original pipe head was observed on May 21, 2019 and May 22, 2019 at Owyhee Dairy along the ditch that borders the North and Northwest side of facility.

2







322° NW

43°35'12" N 116°54'57" W

Homedale, ID

2270 ft Elevation

Photograph taken by Inspector Montague on May 23, 2019 facing 322 degrees Northwest shows two feet high berming added between the Southeast corrals and the ditch that borders the South and Southeast side of Owyhee Dairy. Berming still needs to be compacted to the required 300 PSI to protect potential runoff from the facility from entering the ditch. Photograph also shows where the main active discharge was observed on May 21, 2019 has since been stopped.





Photograph taken by Inspector Montague on May 23, 2019 facing 245 degrees Southwest shows where commodity storage discharge was observed on May 21, 2019 at Owyhee Dairy has since been stopped. Nutrient runoff, oil, and diesel fuel are no longer running down towards Town Ditch at the time of inspection on May 23, 2019.